

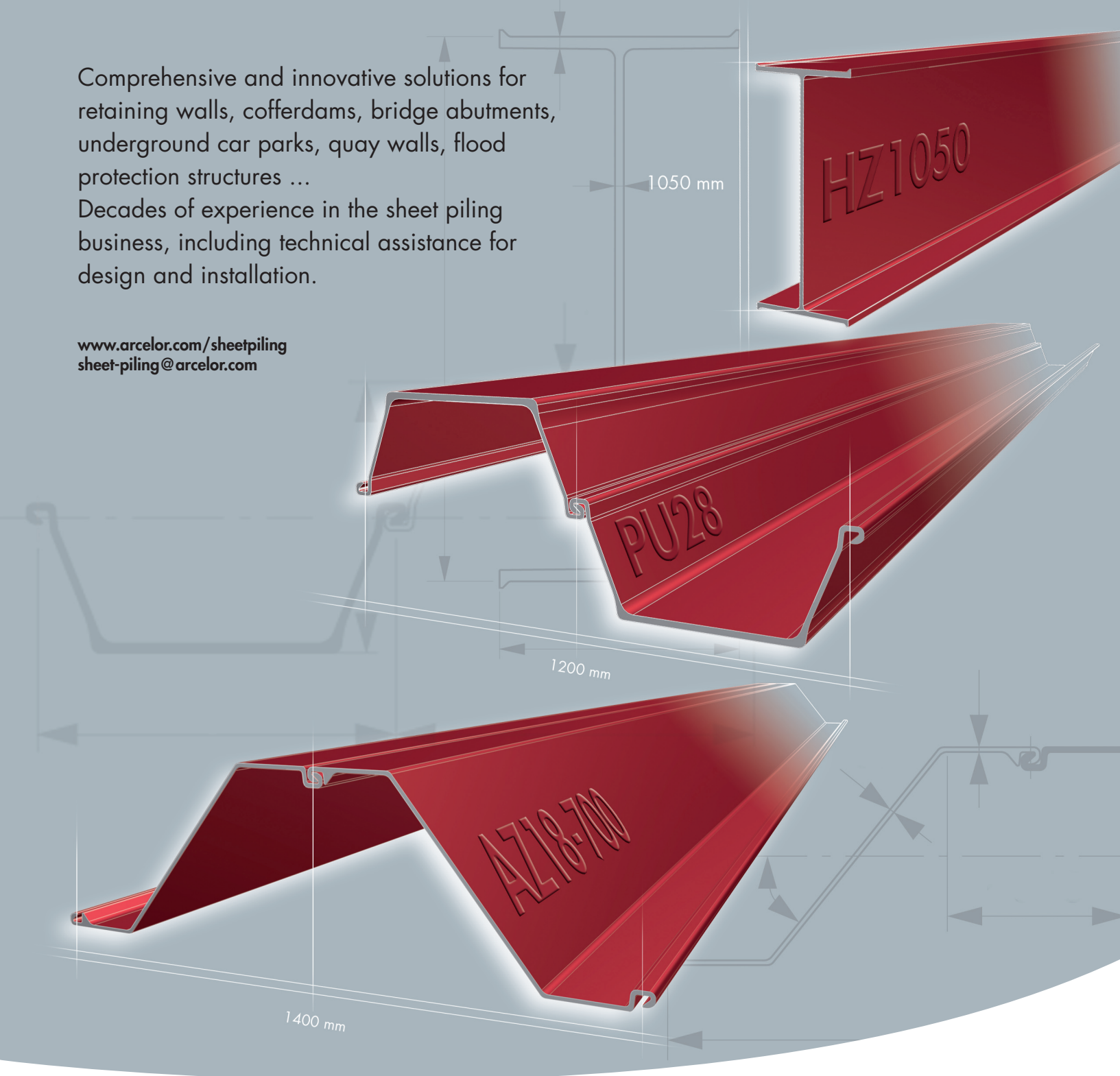
Steel Sheet Piling: new landmarks

Latest developments in 2006

Comprehensive and innovative solutions for retaining walls, cofferdams, bridge abutments, underground car parks, quay walls, flood protection structures ...

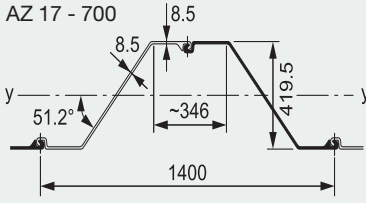
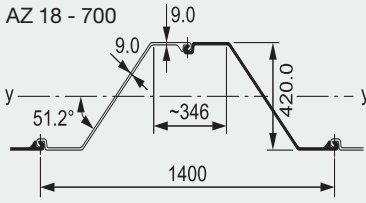
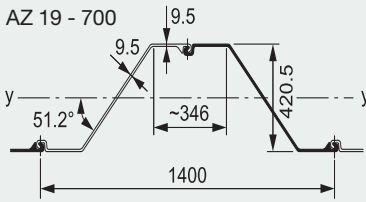
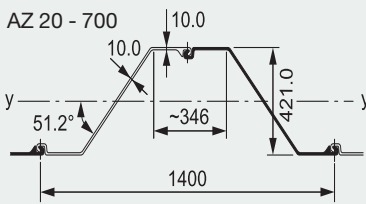
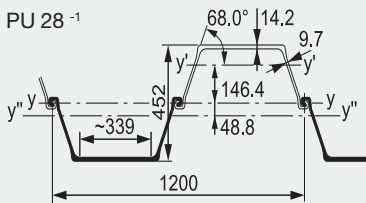
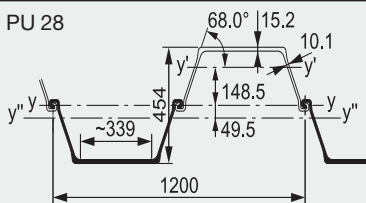
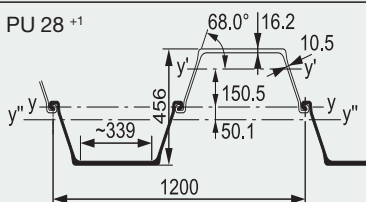
Decades of experience in the sheet piling business, including technical assistance for design and installation.

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Steel Sheet Piles from Arcelor

New sections 06/2006

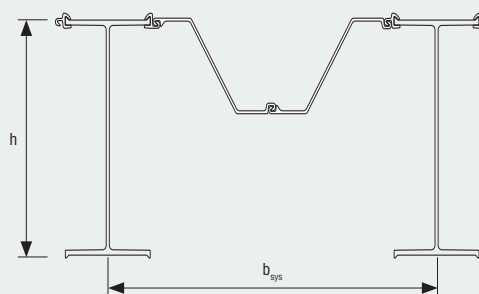
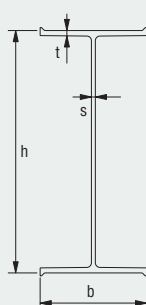
Section	S = Single pile D = Double pile T = Triple pile	Sectional area cm ²	Mass	Moment of inertia cm ⁴	Elastic section modulus cm ³	Radius of gyration cm	Coating area* m ² /m
AZ 17 - 700							
							
Per S		93.1	73.1 kg/m	25360	1210	16.50	0.93
Per D		186.2	146.2 kg/m	50720	2420	16.50	1.86
Per m of wall		133.0	104.4 kg/m²	36230	1730	16.50	1.33
AZ 18 - 700							
							
Per S		97.5	76.5 kg/m	26460	1260	16.50	0.93
Per D		194.9	153.0 kg/m	52920	2520	16.50	1.86
Per m of wall		139.2	109.3 kg/m²	37800	1800	16.50	1.33
AZ 19 - 700							
							
Per S		101.9	80.0 kg/m	27560	1310	16.50	0.93
Per D		203.8	160.0 kg/m	55130	2620	16.50	1.86
Per m of wall		145.6	114.3 kg/m²	39380	1870	16.50	1.33
AZ 20 - 700							
							
Per S		106.4	83.5 kg/m	28670	1360	16.40	0.93
Per D		212.8	167.0 kg/m	57340	2725	16.40	1.86
Per m of wall		152.0	119.3 kg/m²	40960	1945	16.40	1.33
PU 28 ⁻¹							
							
Per S		124.1	97.4 kg/m	9740	576	8.86	0.93
Per D		248.2	194.8 kg/m	72700	3215	17.12	1.85
Per T		372.3	292.2 kg/m	100170	3645	16.40	2.77
Per m of wall		206.8	162.3 kg/m²	60580	2680	17.12	1.54
PU 28							
							
Per S		129.7	101.8 kg/m	10070	589	8.81	0.93
Per D		259.4	203.6 kg/m	77350	3405	17.27	1.85
Per T		389.0	305.4 kg/m	106490	3850	16.55	2.77
Per m of wall		216.1	169.6 kg/m²	64460	2840	17.27	1.54
PU 28 ⁺¹							
							
Per S		135.3	106.2 kg/m	10390	601	8.76	0.93
Per D		270.6	212.4 kg/m	82060	3600	17.41	1.85
Per T		405.9	318.6 kg/m	112870	4060	16.68	2.77
Per m of wall		225.6	177.1 kg/m²	68380	3000	17.41	1.54

* One side, excluding inside of interlocks.

Steel Sheet Piles from Arcelor

New sections 06/2006

Section	Dimensions				Sectional area cm ²	Mass kg/m	Moment of inertia y-y cm ⁴	Elastic section modulus y-y cm ³	Perimeter m ² /m	Interlocking section
	h mm	b mm	t mm	s mm						
HZ 1050	1050	462.0	23.0	17.0	392.6	308.2	728880	13885	3.94	RH20-RZDU18



	Profil	Dimension		Properties per meter of wall				Mass***	Coating area	
		h	b _{sys}	Sectional area	Moment of inertia	Elastic* section modulus	Elastic** section modulus	∕ AZ = 60 % ∕ HZ	∕ AZ = ∕ HZ	Water-side
	Section	mm		cm²/m	cm⁴/m	cm³/m	cm³/m	kg/m²	kg/m²	m²/m
Combinations HZ 1050 - ...	12/AZ 13	1050.0	1870	332.6	462660	9225	7990	222.6	261.1	2.286
	14/AZ 13	1050.0	1870	359.8	543000	9675	10235	235.4	282.4	2.286
	24/AZ 13	1050.0	2350	453.4	739600	12700	13400	325.3	355.9	2.827
	26/AZ 13	1050.0	2350	475.1	800810	14340	15170	335.5	372.9	2.827
	12/AZ 18	1050.0	1790	350.9	492660	9825	8505	234.1	275.5	2.347
	14/AZ 18	1050.0	1790	379.3	576590	10275	10865	247.6	297.8	2.347
	24/AZ 18	1050.0	2270	472.1	773010	13275	14005	338.0	370.6	2.888
	26/AZ 18	1050.0	2270	494.5	836380	14975	15845	348.6	388.2	2.888
	12/AZ 26	1050.0	1790	384.2	507660	10125	8765	249.8	301.6	2.421
	14/AZ 26	1050.0	1790	412.6	591590	10545	11150	263.2	323.9	2.421
	24/AZ 26	1050.0	2270	498.3	784850	13475	14220	350.4	391.2	2.961
	26/AZ 26	1050.0	2270	520.8	848210	15185	16070	361.0	408.8	2.961
	C1	1050.0	480	871.0	1653060	31555	29700	-	683.8	0.541
	C23	1050.0	960	897.6	1731300	30325	32045	-	704.6	1.081

* Referring outside of connector

** Referring outside of HZ-flange

*** Length of connectors depends on combination